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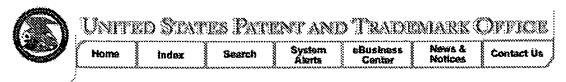
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Salo, A.A.; Hamalainen, R.P.;

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6 Elicitation of knowledge from multiple experts using network infere Rush, R.; Wallace, W.A.;

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7 Critical decision method for eliciting knowledge

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61 Algorithm 43: CROUT with pivoting II

Henry C. Thacher

April 1961 Communications of the ACM, Volume 4 Issue 4

Full text available: pdf(570.53 KB) Additional Information: full citation

62 Algorithms 41: Evaluation of determinant

Josef G. Solomon

April 1961 Communications of the ACM, Volume 4 Issue 4

Full text available: pot(570.53 KB) Additional Information: full citation, references, citings

63 Generating discrete random variables in a computer

G. Marsaglia

January 1963 Communications of the ACM, Volume 6 Issue 1

Full text available: pdf(297.42 KB) Additional Information: full citation, references, citings

64 A card format for reference files in information processing

Mandalav Grems

February 1961 Communications of the ACM, Volume 4 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(773.66 KB)

terms

This paper proposes a card format suitable for a variety of reference files in information processing. An 80-column IBM card is divided into two fields—reference material field (columns 1-67) and identification field (columns 68-80). The format for the reference material is flexible, while the format for the identification is rigid. The reference material includes basically an index, title, source, class, summary and cross reference for each entry. The identification includes basicall ...

65 ACM Algorithm 49: Spherical Neumann Function

J. R. Herndon

April 1961 Communications of the ACM, Volume 4 Issue 4

Full text available: pdf(570.53 KB) Additional Information: full citation, references

66 An optimisation scheme for coalesce/valid time selection operator sequences Costas Vassilakis

March 2000 ACM SIGMOD Record, Volume 29 Issue 1

Full text available: pdf(612.29 KB) Additional Information: full citation, abstract, citings, index terms

Queries in temporal databases often employ the coalesce operator, either to coalesce results of projections, or data which are not coalesced upon storage. Therefore, the performance and the optimisation schemes utilised for this operator is of major importance for the performance of temporal DBMSs. Insofar, performance studies for various algorithms that implement this operator have been conducted, however, the joint optimisation of the coalesce operator with other algebrai ...

Keywords: coalescing, optimisation, query processing, temporal databases, valid time selection

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41 Certification of algorithm 68: augmentation L. M. Breed November 1961 Communications of the ACM, Volume 4 Issue 11
Full text available: pdf(90.48 KB) Additional Information: full citation
42 Remark on algorithm 52: a set of test matrices G. H. Dubay November 1961 Communications of the ACM, Volume 4 Issue 11 Full text available: pdf(90.48 KB) Additional Information: full citation
Full text available. pol(so.46.80) Additional information. <u>Information</u>
43 Algorithm 72: composition generator L. Hellerman, S. Ogden November 1961 Communications of the ACM, Volume 4 Issue 11
Full text available: pdf(90 44 K8) Additional Information: full citation
44 <u>Certification of algorithm 13: Legendre polynomial</u> John Herndon April 1961 Communications of the ACM , Volume 4 Issue 4
Full text available: pdf(570.53 KB) Additional Information: full citation
45 Certification of algorithm 10: Chebyschev polynomial Tra John Herndon April 1961 Communications of the ACM, Volume 4 Issue 4
Full text available: pdf(570.53 KB) Additional Information: full citation

46 Certification of algorithm 3: solution of polynomial equation by Barstow-Hilchcock

	April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(579.53 KB) Additional Information: full citation	
	Remark: on frequently occurring errors in Algol-60 programs W. Börsch-Supan April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(570.53 KB) Additional Information: full citation	
48	Algorithm 57: BER or BEI function John R. Herndon	
	April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(570.53 KB) Additional Information: full citation, references	
		_
49	Algorithm 56: complete elliptic integral of the second kind John R. Herndon	2000
	April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(570.53 KB) Additional Information: full citation	
50	Algorithm 55: complete elliptic integral of the first kind	380000
	John R. Herndon April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(570.53 KB) Additional Information: full citation	
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91	Algorithm 54: Gamma function for range 1 to 2 John R. Herndon	*****
	April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(570.53 KB) Additional Information: full citation	
52	Algorithm 53: Nth roots of a complex number	(2000)
	John R. Herndon April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(570.53 KB) Additional Information: full citation	
53	Algorithm 52: a set of test matrices	
	John R. Herndon	***
	April 1961 Communications of the ACM, Volume 4 Issue 4	
	Full text available: pdf(570,53 KB) Additional Information: full citation	

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	Algorithm 51: adjust inverse of a matrix when an element is perturbed John R. Herndon April 1961 Communications of the ACM, Volume 4 Issue 4 Full text available: pdf(570.53 KB) Additional Information: full citation, references, citings	
55	Algorithm 50:Inverse of a finite segment of the Hilbert matrix John R. Herndon April 1961 Communications of the ACM, Volume 4 Issue 4 Full text available: pdf(570.53 KB) Additional Information: full citation	
56	Algorithm 48: logarithm of a complex number John R. Herndon April 1961 Communications of the ACM, Volume 4 Issue 4 Full text available: pdf(570.53 KB) Additional Information: full citation, references, citings	
57	Algorithm 47: associated Legendre functions of the first kind for real or imaginary arguments John R. Herndon April 1961 Communications of the ACM, Volume 4 Issue 4 Full text available: pdf(570.53 KB) Additional Information: full citation	10000
58	Algorithm 46: exponential of a complex number John R. Herndon April 1961 Communications of the ACM, Volume 4 Issue 4 Full text available: pdf(579.53 KB) Additional Information: full citation	
59	Algorithm 45: interest Peter Z. Ingerman April 1961 Communications of the ACM, Volume 4 Issue 4 Full text available: pdf(570.53 KB) Additional Information: full citation, references	
60	Algorithm 44: Bessel Functions computed recursively Maria E. Wojcicki April 1961 Communications of the ACM, Volume 4 Issue 4 Full text available: pdf(570.53 KB) Additional Information: full citation, references	*******

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21 Semiconductor manufacturing: Semiconductor process equipment modeling: using emulation to validate a cluster tool simulation model

H. Todd LeBaron, Ruth Ann Hendrickson

December 2000 Proceedings of the 32nd conference on Winter simulation

Full text available: pdf(217.83 KB) Additional Information: full citation, abstract, references

Getting the most productivity per square foot of clean room space is a common goal for today's semiconductor fabs. Cluster tool throughput is an important factor in a tool's productivity index. Maximizing and accurately predicting throughput is a high priority in the cluster tool market. This paper presents a flexible and sufficiently accurate cluster tool simulation model. The simulation model can run as an emulator, using the real-world cluster tool scheduler (CTS), or as a stand-alone simulat ...

22 A vectorized 3-D finite element model for transient simulation of two-phase heat transport with phase transformation and a moving interface

Mark Christon

November 1990 Proceedings of the 1990 ACM/IEEE conference on Supercomputing

Full text available: pdf(1.56 MB)

Additional Information: full citation, abstract, references

The implementation of a fully vectorized 3-D finite element model on the CRAY X-MP/Y-MP architecture is presented. Issues involved in vectorizing the computationally intensive modules of the finite element model are discussed. Fully vectorized numerical integration coupled with a preconditioned conjugate gradient linear system solver results in an application performance of 140 MFLOPS with the linear system solver achieving 162 MFLOPS (Y-MP single processor). The vector/scalar speedup for the fi ...

23 Coarse grain reconfigurable architecture (embedded tutorial)

Reiner Hartenstein

January 2001 Proceedings of the 2001 conference on Asia South Pacific design automation

Full text available: pdf(167.05 KB)

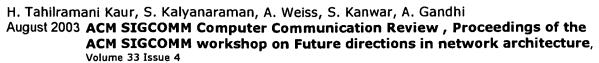
Additional Information: full citation, abstract, references, citings, index terms

The paper gives a brief survey over a decade of R&D on coarse grain reconfigurable hardware and related compilation techniques and points out its significance to the emerging discipline of reconfigurable computing.

24 Analysis of future event set algorithms for discrete event simulation

	William M. McCormack, Robert G. Sargent December 1981 Communications of the ACM , Volume 24 Issue 12	
	Full text available: pdf(1.07 MB) Additional Information: full citation, abstract, references, citings, index terms	
	New analytical and empirical results for the performance of future event set algorithms in discrete event simulation are presented. These results provide a clear insight to the factors affecting algorithm performance, permit evaluation of the hold model, and determine the best algorithm(s) to use. The analytical results include a classification of distributions for efficient insertion scanning of a linear structure. In addition, it is shown that when more than one distribution is present, t	
	Keywords : data structures, simulation event set, time flow mechanisms	
25	A unified approach for solving bottleneck k-bipartition problems M. S. Chang, C. Y. Tang, R. C. T. Lee April 1999 Proceedings of the 19th annual conference on Computer Science	
	Full text available: pdf(805,84 KB) Additional Information: full citation, references	
26	Fully dynamic planarity testing with applications Zvi Galil, Giuseppe F. Italiano, Neil Sarnak January 1999 Journal of the ACM (JACM), Volume 46 Issue 1	
	Full text available: pdf(493.54 KB) Additional Information: full citation, abstract, references, index terms, review	
	This paper introduces compressed certificates for planarity, biconnectivity and triconnectivity in planar graphs, and proves many structural properties of certificates in planar graphs. As an application of our compressed certificates, we develop efficient dynamic planar algorithms. In particular, we consider the following three operations on a planar graph G: (i) insert an edge if the resultant graph remains planar; (ii) delete an edge; and (iii) test whether an edge could	;
	Keywords: dynamic graph algorithms, planar graphs, planarity testing	
27	Controlled iterative methods for solving polynomial systems Didier Bondyfalat, Bernard Mourrain, Victor Y. Pan August 1998 Proceedings of the 1998 international symposium on Symbolic and algebraic computation	
	Full text available: pdf(378.84 KB) Additional Information: full citation, references, citings, index terms	
28	Low power scalable encryption for wireless systems James Goodman, Anantha P. Chandrakasan January 1998 Wireless Networks, Volume 4 Issue 1	
	Full text available: pdf(7,39 MB) Additional Information: full citation, abstract, references, index terms	
	Secure transmission of multimedia information (e.g., voice, video, data, etc.) is critical in many wireless network applications. Wireless transmission imposes constraints not found in typical wired systems such as low power consumption, tolerance to high bit error rates, and scalability. A variety of low power techniques have been developed to reduce the power of several encryption algorithms. One key idea involves exploiting the variation in computation requirements to dynamically vary th	

29	An error-based conceptual clustering method for providing approximate query answers W. W. Chu, K. Chiang, C. Hsu, H. Yau December 1996 Communications of the ACM	
	Full text available: pdf(351.78 KB) Additional Information: full citation, references, index terms	
30	Of maps and scripts—the status of formal constructs in cooperative work Kjeld Schmidt November 1997 Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge: the integration	
	challenge Full text available: pdf(1.64 MB) Additional Information: full citation, references, citings, index terms	
31	Analysis of different protocol description styles in VHDL for high-level synthesis M. Rahmouni, A. Jerraya, P. Kission, A. Mesquita, A. Pedroza, L. Pirmez September 1996 Proceedings of the conference on European design automation	
	Full text available: pdf(250.01 KB) Additional Information: full citation, references, index terms	
32	Upper time bounds for executing PRAM-programs on the LogP-machine Welf Löwe, Wolf Zimmermann July 1995 Proceedings of the 9th international conference on Supercomputing	200000
	Full text available: pdf(1.14 MB) Additional Information: full citation, references, index ferms	
33	Parallelism in sequential functional languages Guy Blelloch, John Greiner October 1995 Proceedings of the seventh international conference on Functional	
	programming languages and computer architecture Full text available: pdf(1.32 MB) Additional Information: full citation, references, citings, index terms	
34	Requirements on Ada reengineering technology from past, present and future systems Evan Lock, Noah Prywes December 1992 Proceedings of the conference on TRI-Ada '92	SHAM
	Full text available: pdf(924.96 KB) Additional Information: full citation, references, index terms	
35	Analysis of dynamic congestion control protocols: a Fokker-Planck approximation Amarnath Mukherjee, John C. Strikwerda August 1991 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Communications architecture & protocols, Volume 21 Issue 4	
	Full text available: pdf(859.55 KB) Additional Information: full citation, references, citings, index terms	
36	BANANAS: an evolutionary framework for explicit and multipath routing in the internet	



Full text available: pdf(585,15 KB) Additional Information: full citation, abstract, references

Today the Internet offers a single path between end-systems even though it intrinsically has a large multiplicity of paths. This paper proposes an evolutionary architectural framework "BANANAS" aimed at simplifying the introduction of multipath routing in the Internet. The framework starts with the observation that a path can be encoded as a short hash ("PathID") of a sequence of globally known identifiers. The PathID therefore has global significance (unlike MPLS or ATM labels). This property a ...

37 Ad hoc and sensor networks: Topology control for wireless sensor networks Jianping Pan, Y. Thomas Hou, Lin Cai, Yi Shi, Sherman X. Shen September 2003 Proceedings of the 9th annual international conference on Mobile computing and networking

Full text available: pdf(297.02 KB) Additional Information: full citation, abstract, references, index terms

We consider a two-tiered Wireless Sensor Network (WSN) consisting of sensor clusters deployed around strategic locations and base-stations (BSs) whose locations are relatively flexible. Within a sensor cluster, there are many small sensor nodes (SNs) that capture, encode and transmit relevant information from the designated area, and there is at least one application node (AN) that receives raw data from these SNs, creates a comprehensive local-view, and forwards the composite bit-stream toward ...

Keywords: network lifetime, topology control, wireless sensor networks

38 META5: A tool to manipulate strings of data

David K. Oppenheim, Daniel P. Haggerty

January 1966 Proceedings of the 1966 21st national conference

Full text available: pdf(305,23 KB) Additional Information: full citation, abstract, references, index terms

The process of producing compilers or similar programs containing complex symbolmanipulation algorithms has become increasingly important to the computing community. The development of techniques to simplify the task of producing this kind of program is clearly desirable. In this paper we describe one of the techniques that was investigated to realize this goal; namely, the use of a metacompiler (or "compiler-compiler") to produce new compilers. At the time the initi ...

39 Evaluation methods in SARA—the graph model simulator

Rami R. Razouk, Mary Vernon, Gerald Estrin

August 1979 Proceedings of the 1979 ACM SIGMETRICS conference on Simulation, measurement and modeling of computer systems

Full text available: pdf(1.58 MB)

Additional Information: full citation, abstract, references, citings, index terms

The supported methodology evolving in the SARA (System ARchitects' Apprentice) system creates a design frame-work on which increasingly powerful analytical tools are to be grafted. Control flow analyses and program verification tools have shown promise. However, in the realm of the complex systems which interest us there is a great deal of research and development to be done before we can count on the use of such powerful tools. We must always be prepared to resort to experiments for evalua ...

Performance evaluation of an adaptive-rate MPEG encoder matching intserv traffic constraints



Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, index terms

Promoting the evolution of the Internet from a simple data network to a true multiservice network today constitutes a challenging task. To this end, the Internet Engineering Task Force (IETF) has set up the Integrated Services (Intserv) and Differentiated Services (DiffServ) Working Groups, with the goal of defining a next-generation Internet, in which traditional best-effort datagram delivery and additional enhanced quality of service delivery classes coexist. The IntServ framework, in particul ...

Keywords: MPEG, Markov modeling, TSpec, performance evaluation, quantizer scale parameter, rate control

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1 Remarks on algorithm 42: invert

P. Naur

January 1963 Communications of the ACM, Volume 6 Issue 1

Full text available: pdf(434.18 KB) Additional Information: full citation, citings

2 Certification of algorithm 42: invert

Anthony W. Knapp

November 1961 Communications of the ACM, Volume 4 Issue 11

Full text available: pdf(90.45 KB)

Additional Information: full citation

3 Algorithm 42: invert

T. C. Wood

April 1961 Communications of the ACM, Volume 4 Issue 4

Full text available: pdf(570.53 KB) Additional Information: full citation

4 Correction to earlier remarks on algorithm 42 invert, alg. 107 Gauss's method, alg 120 inversion II, and gir

P. Naur

August 1963 Communications of the ACM, Volume 6 Issue 8

Full text available: pdf(973.89 KB) Additional Information: full citation

Minimal kernel classifiers

Glenn M. Fung, Olvi L. Mangasarian, Alexander J. Smola

March 2003 The Journal of Machine Learning Research, Volume 3

Full text available: pdf(521.15 KB) Additional Information: full citation, abstract, references, index terms

A finite concave minimization algorithm is proposed for constructing kernel classifiers that use a minimal number of data points both in generating and characterizing a classifier. The algorithm is theoretically justified on the basis of linear programming perturbation theory

and a leave-one-out error bound as well as effective computational results on seven real world datasets. A nonlinear rectangular kernel is generated by systematically utilizing as few of the data as possible both in trainin ...

Keywords: concave minimization, data reduction, sparse kernels, support vector machines

6	Maintaining views in object-relational databases Jixue Liu, Millist Vincent, Mukesh Mohania November 2000 Proceedings of the ninth international conference on Information and	
	knowledge management	
	Full text available: pdf(302.22 KB) Additional Information: full citation, references, citings, index terms	
7	Consensus in the presence of partial synchrony Cynthia Dwork, Nancy Lynch, Larry Stockmeyer April 1988 Journal of the ACM (JACM), Volume 35 Issue 2	\$100 T.
	Full text available: pdf(3.19 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
	The concept of partial synchrony in a distributed system is introduced. Partial synchrony lies between the cases of a synchronous system and an asynchronous system. In a synchronous system, there is a known fixed upper bound &Dgr on the time required for a message to be sent from one processor to another and a known fixed upper bound &PHgr on the relative speeds of different processors. In an asynchronous system no fixed upper bounds &Dgr and &PHgr exist. In one version of partial synch	
8	Implementing Gauss elimination D. F. Stubbs, D. W. Roberts September 1973 ACM SIGCSE Bulletin, Volume 5 Issue 3	600000
	Full text available: pdf(226.55 KB) Additional Information: full citation, index terms	
9	Fast numerical improvement of factors of polynomials and of partial fractions Peter Kirrinnis August 1998 Proceedings of the 1998 international symposium on Symbolic and	20080
	algebraic computation Full text available: pdf(305.91 KB) Additional Information: full citation, references, index terms	
10	Certification of algorithms 120 and matrix inversion by Gauss-Jordan inversion II P. Naur January 1963 Communications of the ACM, Volume 6 Issue 1	
	Full text available: pdf(434,18 KB) Additional Information: full citation, citings	
11	Certification of algorithms 117 and 118 magic squares (even and odd orders) P. Naur January 1963 Communications of the ACM, Volume 6 Issue 1	
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12	Remark on algorithm 107: Gauss's method P. Naur January 1963 Communications of the ACM, Volume 6 Issue 1 Full text available: pdf(434.16 KB) Additional Information: full citation	
13	Certification of algorithm for calculating primes by means of GPS P. Naur January 1963 Communications of the ACM, Volume 6 Issue 1 Full text available: pdf(434.18 KB) Additional Information: full citation	
14	Remarks on and certification of algorithm 52: a set of test matrices P. Naur January 1963 Communications of the ACM, Volume 6 Issue 1 Full text available: Additional Information: full citation	
15	Remarks on and certification of algorithm 50: inverse of a finite segment of the Hilbert matrix P. Naur January 1963 Communications of the ACM, Volume 6 Issue 1 Full text available: pdf(434.18 KB) Additional Information: full citation	
16	Certification of algorithm 31: gamma function Peter G. Behrenz January 1963 Communications of the ACM, Volume 6 Issue 1 Full text available: pdf(434.18 KB) Additional Information: full citation	: 3000 %)
17	Algorithm 507: Procedures for Quintic Natural Spline Interpolation [E1] John G. Herriot, Christian H. Reinsch September 1976 ACM Transactions on Mathematical Software (TOMS), Volume 2 Issue 3 Full text available: pdf(494.78 KB) Additional Information: full citation, references, citings, index terms	*********
18	Session 12A: On broadcasting in heterogenous networks Samir Khuller, Yoo-Ah Kim January 2004 Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms Full text available: prif(263.91 KB) Additional Information: full citation, abstract, references In this paper we study a well known broadcasting heuristic for heterogenous networks of workstations, called fastest node first. We show that this heuristic produces an optimal solution for minimizing the sum of all completion times, and in addition produces a 1.5 approximation for the problem of minimizing the maximum completion time. We extend	

these results to show that the same bounds can be obtained for the multicast operation on such heterogenous networks. In addition we show that th ...

19 Evolving data mining into solutions for insights: Scaling mining algorithms to large databases



Paul Bradley, Johannes Gehrke, Raghu Ramakrishnan, Ramakrishnan Srikant August 2002 Communications of the ACM, Volume 45 Issue 8

Full text available: pdf(116.66 KB) ntrol(28.54 KB)

Additional Information: full citation, abstract, references, index terms

Which insights about data structure make it possible to analyze the very large databases collected by Internet, business, scientific, and government applications?

20 Cross-entropy and rare events for maximal cut and partition problems Reuven Y. Rubinstein



Full text available: pdf(271.84 KB) Additional Information: full citation, abstract, references, index terms

We show how to solve the maximal cut and partition problems using a randomized algorithm based on the cross-entropy method. For the maximal cut problem, the proposed algorithm employs an auxiliary Bernoulli distribution, which transforms the original deterministic network into an associated stochastic one, called the associated stochastic network (ASN). Each iteration of the randomized algorithm for the ASN involves the following two phases:(1) Generation of random cuts using a mul ...

Keywords: Combinatorial optimization, cross-entropy, importance sampling, rare event simulation

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41 PYTHIA-II: a knowledge/database system for managing performance data and recommending scientific software

Elias N. Houstis, Ann C. Catlin, John R. Rice, Vassilios S. Verykios, Naren Ramakrishnan, Catherine E. Houstis

June 2000 ACM Transactions on Mathematical Software (TOMS), Volume 26 Issue 2

Full text available: pdf(796.18 KB)

Additional Information: full citation, abstract, references, citings, index terms

Often scientists need to locate appropriate software for their problems and then select from among many alternatives. We have previously proposed an approach for dealing with this task by processing performance data of the targeted software. This approach has been tested using a customized implementation referred to as PYTHIA. This experience made us realize the complexity of the algorithmic discovery of knowledge from performance data and of the management of these data together with the d ...

Keywords: data mining, inductive logic programming, knowledge discovery in databases, knowledge-based systems, performance evaluation, recommender systems, scientific software

42 Computer-based systems for cooperative work and group decision making Kenneth L. Kraemer, John Leslie King July 1988 ACM Computing Surveys (CSUR), Volume 20 Issue 2

Full text available: pdf(3.56 MB)

Additional Information: full citation, abstract, references, cilings, index terms

Application of computer and communications technology to cooperative work and group decision making has grown out of three traditions: computer-based communications, computer:based information service provision, and computer-based decision support. This paper reviews the group decision support systems (GDSSs) that have been configured to meet the needs of groups at work, and evaluates the experience to date with such systems. Progress with GDSSs has proved to be slower than originally antic ...

43 Time-management: a case for CSCW

Edeltraud Egger, Ina Wagner

December 1992 Proceedings of the 1992 ACM conference on Computer-supported cooperative work

Full text available: pdf(939.13 KB) Additional Information: full citation, references, citings, index terms

Keywords: automatic scheduling, cooperative decision-making, time-management

44 Online query refinement on information retrieval systems: a process model of searcher/system interactions

H. Chen, V. Dhar

December 1989 Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(1.46 MB)

Additional Information: full citation, abstract, references, index terms

This article reports findings of empirical research that investigated information searchers' online query refinement process. Prior studies have recognized the information specialists' role in helping searchers articulate and refine queries. Using a semantic network and a Problem Behavior Graph to represent the online search process, our study revealed that searchers also refined their own queries in an online task environment. The information retrieval system played a passive role in assis ...

45 A survey "APL thinking"

Murray Eisenberg, Howard A. Peelle

December 1990 ACM SIGAPL APL Quote Quad, Volume 21 Issue 2

Full text available: pdf(291.12 KB) Additional Information: fdii citation, abstract, citings, index terms

During the APL86 conference in Manchester, England, we conducted a questionnaire survey of some aspects of "APL Thinking." We feel that the findings are as useful now as then, so to provide feedback to the APL community, we summarize the results here. The purpose of the survey was to understand how people think while programming in APL. Our ultimate aim is to improve the learning, teaching, and dissemination of APL.Respondents were specifically asked to concentrate on the thinking processes invol ...

46 Photorealistic rendering of knitwear using the lumislice

Ying-Qing Xu, Yanyun Chen, Stephen Lin, Hua Zhong, Enhua Wu, Baining Guo, Heung-Yeung Shum

August 2001 Proceedings of the 28th annual conference on Computer graphics and interactive techniques

Full text available: pdf(29.02 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present a method for efficient synthesis of photorealistic free-form knitwear. Our approach is motivated by the observation that a single cross-section of yarn can serve as the basic primitive for modeling entire articles of knitwear. This primitive, called the lumislice, describes radiance from a yarn cross-section based on fine-level interactions such as occlusion, shadowing, and multiple scattering - among yarn fibers. By representing yarn as a sequence of identical ...

Keywords: image-based rendering, knitwear, parametric surfaces, photorealistic rendering, transparency blending

47 User modeling in UC, the UNIX consultant

D. N. Chin

April 1986 ACM SIGCHI Bulletin, Proceedings of the SIGCHI conference on Human factors in computing systems, Volume 17 Issue 4

Full text available: pdf(530,43 KB)

Additional Information: full citation, abstract, references, citings, index terms

UC is a natural language computer consultant system for the UNIX operating system. The user model in UC encodes the user's knowledge state and allows UC to tailor its responses to the user. The model encodes apriori knowledge in a double stereotype system that is extremely efficient. Models of individual users are updated dynamically and build on top of the user's stereotype. The model deals with uncertainty in apriori information and attempts to deduce the user's level during the course of ...

48 User technology—from pointing to pondering

Stuart Card, Thomas Moran

January 1986 Proceedings of the ACM Conference on The history of personal workstations

Full text available: pdf(1,43 MB)

Additional Information: full citation, abstract, references, citings, index terms

From its beginning, the technology of personal workstations has been driven by visions of a future in which people would work in intimate partnership with computer systems on significant intellectual tasks. These visions have been expressed in various forms: Memex (Bush, 1945), Man-Machine Symbiosis (Licklider, 1960), NLS (Engelbart, 1963), Dynabook (Kay, 1977), and others. The tight coupling between human and computer required by these visions necessitated advances in the ways hu ...

49 Ray tracing volume densities

James T. Kajiya, Brian P Von Herzen

January 1984 ACM SIGGRAPH Computer Graphics, Proceedings of the 11th annual conference on Computer graphics and interactive techniques, Volume 18 Issue 3

Full text available: pdf(949.81 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents new algorithms to trace objects represented by densities within a volume grid, e.g. clouds, fog, flames, dust, particle systems. We develop the light scattering equations, discuss previous methods of solution, and present a new approximate solution to the full three-dimensional radiative scattering problem suitable for use in computer graphics. Additionally we review dynamical models for clouds used to make an animated movie.

Keywords: Clouds, Computer graphics, Light scattering, Particle systems, Radiative transport, Raster graphics, Ray tracing, Simulation of natural phenomena, Stochastic modeling

50 Comparing in situ mRNA expression patterns of drosophila embryos

Hanchuan Peng, Eugene W. Myers

March 2004 Proceedings of the eighth annual international conference on Computational molecular biology

Full text available: pdf(377.74 KB) Additional Information: full citation, abstract, references, index ferms

In situ staining of a target mRNA at several time points during the development of a D. melanogaster embryo gives one a detailed spatio-temporal view of the expression pattern of a given gene. We have developed algorithms and software for analyzing a database of such images with the goal of being able to identify coordinately expressed genes and further our understanding of cis-regulatory control during embryogenesis. Our approach combines measures of similarity at bo ...

Keywords: drosophila, embryogenesis, gaussian mixture model, gene expression, image matching, in situ hybridization

Page 4 of 6

		_
51	Building and using cultural digital libraries: Supporting access to large digital oral	
	history archives	_
	Samuel Gustman, Dagobert Soergel, Douglas Oard, William Byrne, Michael Picheny, Bhuvana Ramabhadran, Douglas Greenberg	3
	July 2002 Proceedings of the second ACM/IEEE-CS joint conference on Digital	
	libraries	
	Full text available: pdf(734.60 KB) Additional Information: full citation, abstract, references, citings, index terms	
	This paper describes our experience with the creation, indexing, and provision of access t a very large archive of videotaped oral histories - 116,000 hours of digitized interviews in 32 languages from 52,000 survivors, liberators, rescuers, and witnesses of the Nazi Holocaust. It goes on to identify a set of critical research issues that must be addressed if we are to provide full and detailed access to collections of this size: issues in user requirement studies, automatic speech recognition,	
	Keywords: cataloging, oral history, research agenda	
52	² A debate on teaching computing science	
	December 1989 Communications of the ACM, Volume 32 Issue 12	
	Full text available: pdf(2.19 MB) Additional Information: full citation, citings, index terms, review	
		_
53	Four paradigms of information systems development Rudy Hirschheim, Heinz K. Klein October 1989 Communications of the ACM, Volume 32 Issue 10	79.00
	Full text available: pdf(2,09 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
	Developing computer-based information systems necessarily involves making a number of implicit and explicit assumptions. The authors examine four different approaches to information systems development.	ıf
54	Toward a contingency view of infrastructure and knowledge: an exploratory study Claudio U. Ciborra, Ole Hanseth	28880
	December 1998 Proceedings of the international conference on Information systems	
	Full text available: pdf(43.11 KB) Additional Information: full citation, references, index terms	
	Keywords : IS use, economic theory, globalization of IS, implementation approaches, information infrastructures	
55	Enhancing program readability and comprehensibility with tools for program visualization R. Baecker April 1988 Proceedings of the 10th international conference on Software engineering	 g
	Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references, citings, index terms	
	In order to make computer programs more comprehensible, the presentation of program source text, program documentation, and program execution needs to be enhanced over conventional treatment. The paper describes a number of new techniques and tools	its

presentation of source text in the C programming language using high quality digital typography, and a processor which implements the design. Some experimental ... 56 Comparing effort prediction models for web design and authoring using boxplots Emilia Mendes, Nile Mosley January 2001 Australian Computer Science Communications, Proceedings of the 24th Australasian conference on Computer science, Volume 23 Issue 1 Full text available: pdf(777.40 KB) Additional Information: full citation, abstract, references Publisher Site Software practitioners recognise the importance of realistic estimates of effort to the successful management of software projects, the Web being no exception. Having realistic estimates at an early stage in a project's life cycle allow project managers and development organisations to manage resources effectively. Prediction is a necessary part of an effective process, be it authoring, design, testing, or Web development as a whole. The first part of this paper describes a case study evaluation (... 57 Customized instruction-sets for embedded processors Joseph A. Fisher June 1999 Proceedings of the 36th ACM/IEEE conference on Design automation conference Full text available: 📆 pdf(55,91 KB) Additional Information: full citation, references, sitings, index terms Keywords: VLIW, custom processors, embedded processors, instruction-level parallelism, mass customization of toolchains 58 An experimental evaluation of quality guidelines on the maintainability of objectoriented design documents Lionel C. Briand, Christian Bunse, John W. Daly October 1997 Papers presented at the seventh workshop on Empirical studies of programmers Full text available: pdf(1.49 MB) Additional Information: full citation, references, citings, index terms 59 Prototypes as assets, not toys; why and how to extract knowledge from prototypes Kurt Schneider May 1996 Proceedings of the 18th international conference on Software engineering Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, citings, index Publisher Site Software prototypes are becoming more and more important, as computer applications

developed to achieve these ends. One of these is a novel design for the effective

invade new domains and as personal prototyping environments become more powerful. Although numerous approaches recommend their use, prototypes are sometimes treated like their developers' personal toys, and little effort is made to extract and share the experiences and knowledge that emerged as a by-product of building the prototype. In this paper, a strategy is proposed to extract crucial pieces of knowledge from ...

Keywords: computer applications, concepts, executable knowledge representations, experiences, explanation monitoring, hyperstructured information base, implementation tricks, knowledge, personal prototyping environments, software prototypes, software prototyping, system monitoring

60 Complex? Yes! Adaptive? Well, maybe...

Glenda H. Eoyang

January 1996 interactions, Volume 3 Issue 1

Full text available: pdf(585,70 KB) Additional Information: full citation, references, index terms, review

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21 Level of detail: Visual attention-based polygon level of detail management

Ross Brown, Luke Cooper, Binh Pham

February 2003 Proceedings of the 1st international conference on Computer graphics and interactive techniques in Austalasia and South East Asia

Full text available: pdf(4.11 MB)

Additional Information: full citation, abstract, references, index terms

Modern real-time graphics systems are required to render millions of polygons to the screen per second. However, even with this high polygon rendering bandwidth, there are still applications which tax this rendering capability. We introduce in this paper a technique which adaptively allocates polygons to objects in a scene according to their visual importance. It is expected that using this technique, an improvement in the perceptual quality of a rendered image should result, for the same overal ...

Keywords: level of detail management, real-time graphics, visual attention

22 Technique for automatically correcting words in text

Karen Kukich

December 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 4

Full text available: pdf(6,23 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

23 Information systems security design methods: implications for information systems development
Richard Baskerville

December 1993 ACM Computing Surveys (CSUR), Volume 25 Issue 4

Full text available: pdf(3.44 MB)

Additional Information: full citation, abstract, references, citings, index terms

The security of information systems is a serious issue because computer abuse is increasing. It is important, therefore, that systems analysts and designers develop expertise in methods for specifying information systems security. The characteristics found in three generations of general information system design methods provide a framework for comparing and understanding current security design methods. These methods include approaches that use checklists of controls, divide functional req ...

Keywords: checklists, control, integrity, risk analysis, safety, structured systems analysis and design, system modeling

24 Full Technical Papers: Inferring user goals from personality and behavior in a causal model of user affect

Xiaoming Zhou, Cristina Conati

January 2003 Proceedings of the 8th international conference on Intelligent user interfaces

Full text available: pdf(700.99 KB) Additional Information: full citation, abstract, references, index terms

We present a probabilistic model, based on Dynamic Decision Networks, to assess user affect from possible causes of emotional arousal. The model relies on the OCC cognitive theory of emotions and is designed to assess student affect during the interaction with an educational game. A key element of applying the OCC theory to assess user affect is knowledge of user goals. Thus, in this paper we focus on describing how our model infers these goals from user personality traits and interaction behavi ...

Keywords: affective computing, dynamic decision networks, educational games, user modeling

25 Selecting expert system frameworks within the Bayesian theory

S W Norton

December 1986 Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems

Full text available: pdf(817.16 KB) Additional Information: full citation, abstract, references, index terms

Because of the impact that the choice of an expert system framework has on the success of expert system projects, it is important for anyone evaluating expert systems and expert system tools, whether casually or critically, to consider a variety of issues. As background, this paper provides a general description of the expert systems paradigm, and detailed descriptions of two expert system frameworks for reasoning under uncertainty. Although both of the expert systems described have roots i ...

26 Conflict resolution in inductive learning from examples

Ray R. Ashemi, Mehdi Razzaghi, Frederick R. Jelovsek, John R. Talburt

April 1992 Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's

Full text available: pdf(440.38 KB) Additional Information: full citation, references, citings, index terms

Qualitative decision theory: from savage's axioms to nonmonotonic reasoning Didier Dubois, Hélène Fargier, Henri Prade, Patrice Perny July 2002 Journal of the ACM (JACM), Volume 49 Issue 4 Full text available: pdf(354.26 KB)

Additional Information: full citation, abstract, references, citings, index

This paper investigates to what extent a purely symbolic approach to decision making under uncertainty is possible, in the scope of artificial intelligence. Contrary to classical approaches to decision theory, we try to rank acts without resorting to any numerical representation of utility or uncertainty, and without using any scale on which both uncertainty and preference could be mapped. Our approach is a variant of Savage's where the setting is finite, and the strict preference on acts ...

Keywords: Comparative uncertainty, decision theory, nonmonotonic reasoning, possibility theory, preference relations, qualitative decision theory

28 An experimental study on the role of touch in shared virtual environments Cagatay Basdogan, Chih-Hao Ho, Mandayam A. Srinivasan, Mel Slater December 2000 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 7 Issue 4

Full text available: pdf(440,05 KB)

Additional Information: full citation, abstract, references, citings, index terms

Investigating virtual environments has become an increasingly interesting research topic for engineers, computer and cognitive scientists, and psychologists. Although there have been several recent studies focused on the development of multimodal virtual environments (VEs) to study human-machine interactions, less attention has been paid to human-human and human-machine interactions in shared virtual environments (SVEs), and to our knowledge, no attention paid at all to what extent the addi ...

Keywords: copresence, force feedback devices, haptic interaction, shared virtual environments

²⁹ Heuristic programmers and their gambling machines

Nicholas V. Findler, Heinz Klein, R. Channing Johnson, Alexander Kowal, Zachary Levine, John

January 1974 Proceedings of the 1974 annual conference

Full text available: pdf(891,46 KB)

Additional Information: full citation, abstract, references, citings, index terms

Following our paper given at the IFIP Congress 71, another progres report is presented of our ongoing research efforts aimed at human decision making under uncertainty and risk. We have studied many aspects of human and machine learning processes, inductive and deductive inference making methods, how heuristic rules are formed and optimized by human players, and how similar results can be arrived at by machines. Although the investigations have been within the general framework of the game ...

Keywords: Automatic forming and optimizing of heuristic rules, Automatic inductive and deductive inference making, Gambling and bluffing, Game playing programs, Machine learning, Models of game learning

30 Conference report: the third ACM conference on electronic commerce

David C. Parkes

December 2001 ACM SIGecom Exchanges, Volume 3 Issue 1

Full text available: pdf(72.05 KB) Additional Information: full citation, abstract, references, index terms

The 3rd ACM Conference on Electronic Commerce (EC'01) took place in Tampa, Florida, from October 14th until October 17th, 2001. The conference contained 35 research papers in topics at the interface between computer science, economics, commerce and law. The 2001 Trading Agent Competition (TAC) was also associated with the conference. This report summarizes the program.

	summarizes the program.	
	Histogram editing for semi-quantitative data input in interactive simulations	
	R. R. Ron Goforth March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice	
	Full text available: pdf(564.24 KB) Additional Information: full citation, references, index terms, review	
	Keywords: AIDS, HIV, histograms, probability density functions	
32	Acquiring knowledge about group facilitation: research propositions Fred Niederman	
	April 1996 Proceedings of the 1996 ACM SIGCPR/SIGMIS conference on Computer personnel research	
	Full text available: pdf(1.09 MB) Additional Information: full citation, references, index terms	
33	The OODB path-method generator (PMG) using access weights and precomputed access relevance Ashish Mehta, James Geller, Yehoshua Perl, Erich Neuhold February 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 1	
	Full text available: pdf(265.48 KB) Additional Information: full citation, abstract, index terms	
	A path-method is used as a mechanism in object-oriented databases (OODBs) to retrieve or to update information relevant to one class that is not stored with that class but with some other class. A path-method is a method which traverses from one class through a chain of connections between classes and accesses information at another class. However, it is a difficult task for a casual user or even an application programmer to write path-methods to facilitate queries. This is because it mig	
	Keywords: Access relevance, Access weight, OODB queries, Object-oriented databases, Path-method, Traversal algorithms	
34	Session 1: Perspectives on software evolution 1: Evolution in software and related areas M. M. Lehman, J. F. Ramil September 2001 Proceedings of the 4th international workshop on Principles of	
	software evolution	
	Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings	
	After briefly discussing the meaning of the term <i>evolution</i> in the context of software, its technology, the software process and related domains, the paper describes some of the facets and implications of the evolution phenomenon as identified during many years of active interest in the topic, most recently during the FEAST (Feedback, Evolution And Software Technology) projects.	

Keywords: SPE program classification, empirical studies, feedback, process improvement,

process modelling, software engineering, software process, theory

35	Position papers: "Self-healing": softening precision to avoid brittleness: position paper for WOSS '02: workshop on self-healing systems Mary Shaw November 2002 Proceedings of the first workshop on Self-healing systems	
	Full text available: pdf(55 42 K9) Additional Information: full citation, abstract, references	
	Modern practical computing systems are much more complex than the simple programs on which we developed our models of dependability. These dependability models depend on precise specifications, but it is often impractical to obtain precise specifications of practical software-intensive systems. Furthermore, the criteria for acceptable behavior vary from time to time and from one user to another. When development methods are based on the classic models that assume precise specifications, the resu	
	Keywords : self-healing systems, software homeostasis, software utility theory, sufficient correctness	
36	IS '97: model curriculum and guidelines for undergraduate degree programs in information systems	
	Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker	
	December 1997 ACM SIGMIS Database, Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems, Volume 28 Issue 1 Full text available: pd((7.24 MB) Additional Information: full citation, citings	
37	Applications of computer graphics to the visualization of meteorological data T. V. Papathomas, J. A. Schiavone, B. Julesz June 1988 ACM SIGGRAPH Computer Graphics, Proceedings of the 15th annual conference on Computer graphics and interactive techniques, Volume 22 Issue 4 Full text available: pdf(3.39 MB) Additional Information: full citation, abstract, references, index terms	
	The need to visualize huge amounts of numerical data is exemplified in the field of meteorology, where measurements of many atmospheric parameters are routinely taken over large geographical areas for the purpose of monitoring and predicting weather. Computer graphics has provided and will continue to offer powerful tools to meet this visualization challenge, principally in three areas: first, efficient graphics algorithms for displaying the data; second, novel special-purpose graphics hardware; Keywords: animation, atmospheric phenomena, clouds, display techniques, fog, image	
38	processing, interactive workstations, modelling, motion, perception, stereo, weather forecasting Knowledge Management I: Information seeking and sharing in design teams	
	Steven Poltrock, Jonathan Grudin, Susan Dumais, Raya Fidel, Harry Bruce, Annelise Mark Pejtersen November 2003 Proceedings of the 2003 international ACM SIGGROUP conference on	
	Supporting group work Full text available: pdf(244.44 KB) Additional Information: full citation, aixstract, references, index terms	

Information retrieval is generally considered an individual activity, and information retrieval research and tools reflect this view. As digitally mediated communication and information sharing increase, collaborative information retrieval merits greater attention and support. We describe field studies of information gathering in two design teams that had very different products, disciplinary backgrounds, and tools. We found striking similarities in the kinds of information they sought and the m ...

Keywords: collaborative design, collaborative information retrieval

39 Knowledge sharing, quality, and intermediation

Claire Vishik, Andrew B. Whinston

March 1999 ACM SIGSOFT Software Engineering Notes, Proceedings of the international joint conference on Work activities coordination and collaboration, Volume 24 Issue 2

Full text available: pdf(1,33 MB) Additional Information: full citation, abstract, references, index terms

Informal publishing flourished in the World Wide Web environment, where every user with a sufficient level of access can become a publisher. Although it appears that in such an environment intermediation in the distribution and sharing of information becomes unnecessary, the uneven quality of information and resulting quality uncertainty of information users, together with the increased search efforts, represent a sufficient reason for information and knowledge intermediaries to preserve and eve ...

Keywords: Internet, World Wide Web, economics of information, information exchange, intermediation, knowledge management

40 Conversations with Clement Mok and Jakob Nielsen, and with Bill Buxton and Clifford

Nass

Richard I. Anderson

January 2000 interactions, Volume 7 Issue 1

Full text available: pdf(936.68 KB) Additional Information: full citation, citings, index terms

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User mobility profile prediction: an adaptive fuzzy inference approach

Xuemin Shen, Jon W. Mark, Jun Ye

November 2000 Wireless Networks, Volume 6 Issue 5

Full text available: pdf(213.04 KB) Additional Information: full citation, references, index terms

Teaching principles of fuzzy logic analysis using the BK-products model Bobby C. Granville

April 2003 The Journal of Computing in Small Colleges, Volume 18 Issue 4

Full text available: pdf(44.13 K6)

Additional Information: full citation, abstract, references, index ferms

The objective of the course is to give students experience using a generic front-end for relational knowledge based systems that explore the advantages of fuzzy "computing with words," a natural language protocol that provides users the freedom to permit their common use of vague measurement terms in analyzing vague and partial relational knowledge structures. This course applies fuzzy logic to filter, organize, and compare verbal relational requests (queries) that relate patient symptoms with d ...

A collaborative fuzzy expert system for the Web

Tod A. Sedbrook

June 1998 ACM SIGMIS Database, Volume 29 Issue 3

Full text available: pdf(1.54 MB)

Additional Information: full citation, abstract, index terms

A convergence of Internet and fuzzy logic technologies provides an opportunity for experts and end users to collaborate in developing, refining, and testing knowledge-based systems. Internet technology removes geographical and time-based restraints, and fuzzy rule bases are easier to understand and maintain. This paper describes an architecture and a prototype for developing, delivering, and maintaining expert systems on the World Wide Web. The system's collaboration components allowed experts to ...

Keywords: Internet, collaboration, design, expert system, fuzzy logic

A wavelet-based neuro-fuzzy system for data mining small image sets Brendon J. Woodford, Da Deng, George L. Benwell January 2004 Proceedings of the second workshop on Australasian information

security, Data Mining and Web Intelligence, and Software **Internationalisation - Volume 32**

Full text available: pdf(327.36 KB) Additional Information: full citation, abstract, references

Creating a robust image classification system depends on having enough data with which one can adequately train and validate the model. If there is not enough available data, this assumption may not hold and would result in a classifier that exhibits poor performance, thus lowering it's acceptability. This paper offers a solution to the problem of training and testing a neuro-fuzzy system for the purpose of image recognition when there are a limited number of images. Features of interest are seg ...

Keywords: multimedia data mining, pattern recognition, spatial data mining

5	Computing curricula 2001 September 2001 Journal on Educational Resources in Computing (JERIC)	
	Full text available: pdf(613.63 KB) Additional Information: full citation, references, citings, index terms	
6	FQUERY for Access: towards human consistent querying user interface Slawomir Zadrozny, Janusz Kacprzyk February 1996 Proceedings of the 1996 ACM symposium on Applied Computing	
	Full text available: pdf(516.52 KB) Additional Information: full citation, references, index terms	
	Keywords : fuzzy DBMS, fuzzy linguistic quantifier, fuzzy logic, fuzzy querying, relational DBMS	
7	Fast detection of communication patterns in distributed executions Thomas Kunz, Michiel F. H. Seuren November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms	egono co
	Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun	
8	An empirical study of a wide-area distributed file system Mirjana Spasojevic, M. Satyanarayanan May 1996 ACM Transactions on Computer Systems (TOCS), Volume 14 Issue 2	
	Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
	The evolution of the Andrew File System (AFS) into a wide-area distributed file system has encouraged collaboration and information dissemination on a much broader scale than ever before. We examine AFS as a provider of wide-area file services to over 100 organizations	

around the world. We discuss usage characteristics of AFS derived from empirical measurements of the system. Our observations indicate that AFS provides robust and

efficient data access in its current configuration, thus conf ...

Keywords: Andrew, Internet, World Wide Web, scalability, usage, wide area

9	Recent trends in automatic information retrieval	
•		
	Gerard Salton	
	September 1986 Proceedings of the 9th annual international ACM SIGIR conference on	
Research and development in information retrieval		
	Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings	

Substantial successes were achieved in the early years in automatic indexing and retrieval using single term indexing theories with term weight assignments based on frequency considerations. The development of more refined indexing systems using thesaurus aids and automatically constructed term association maps changed the retrieval effectiveness only slightly. The recent introduction of the relevance concept in the form of probabilistic retrieval models provided a firm basis for term weigh ...

10 User modeling I: Designing example-critiquing interaction Boi Faltings, Pearl Pu, Marc Torrens, Paolo Viappiani January 2004 Proceedings of the 9th international conference on Intelligent user interface

Full text available: pdf(412.31 KB) Additional Information: full citation, abstract, references, index terms

In many practical scenarios, users are faced with the problem of choosing the most preferred outcome from a large set of possibilities. As people are unable to sift through them manually, decisions support systems are often used to automatically find the optimal solution. A crucial requirement for such a system is to have an accurate model of the user's preferences. Studies have shown that people are usually unable to accurately state their preferences up front, but are greatly helped by seeing e ...

Keywords: decision support tools, example critiquing

11 Requirements interaction management William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov June 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 2

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven researc ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR)., system architecture, system specification, viewpoints

12 Predicting expert system success: an expert system for expert systems Il-Yeol Song, Joseph LaGue

September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and directions in expert systems

Full text available: pdf(1.78 MB) Additional Information: full citation, references, index terms

13 A diagnostic system based on a multi-decision approximate rules model Ray R. Hashemi, Fred Choobineh, John Talburt, William Slikker, Merle G. Paule April 1997 Proceedings of the 1997 ACM symposium on Applied computing
Full text available: pdf(466.71 KB) Additional Information: full citation, references, index terms
Keywords : approximate rule, diagnostic system, modified rough sets, multi-decision approximate rule, rough sets
14 Hypermedia in the Large: A comparison of case-based reasoning approaches Emilia Mendes, Nile Mosley, Ian Watson May 2002 Proceedings of the eleventh international conference on World Wide Web
Full text available: pdf(234.01 KB) Additional Information: full citation, abstract, references, citings, index terms
Over the years software engineering researchers have suggested numerous techniques for estimating development effort. These techniques have been classified mainly as algorithmic, machine learning and expert judgement. Several studies have compared the prediction accuracy of those techniques, with emphasis placed on linear regression, stepwise regression, and Case-based Reasoning (CBR). To date no converging results have been obtained and we believe they may be influenced by the use of the same C
Keywords : case-based reasoning, prediction models, web effort prediction, web hypermedia, web hypermedia metrics
15 A systematic approach to derive the scope of software product lines Jean-Marc DeBaud, Klaus Schmid May 1999 Proceedings of the 21st international conference on Software engineering
Full text available: pdf(1.34 MB) Additional Information: full citation, references, citings, index terms
Keywords : domain engineering, product line scoping, reuse economic models, software product line
16 Automated selection of maihematical software Michael Lucks, Ian Gladwell March 1992 ACM Transactions on Mathematical Software (TOMS), Volume 18 Issue 1
Full text available: pdf(1.63 MB) Additional Information: full citation, abstract, references, citings, index terms.
Current approaches to recommending mathematical software are qualitative and categorical. These approaches are unsatisfactory when the problem to be solved has features that can "trade-off" in the recommendation process. A quantitative system is proposed that permits tradeoffs and can be built and modified incrementally. This quantitative approach extends other knowledge-engineering techniques in its knowledge representation and aggregation facilities. The system is demonstrated

 $\textbf{Keywords} \colon \text{ordinary differential equations, quantitative knowledge representation, software selection}$

7 An updated survey of GA-based multiobjective optimization techniques Carlos A. Coello June 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 2	_
Full text available: pdf(250.77 KB) Additional Information: full citation, abstract, references, citings, index terms	
After using evolutionary techniques for single-objective optimization during more than two decades, the incorporation of more than one objective in the fitness function has finally become a popular area of research. As a consequence, many new evolutionary-based approaches and variations of existing techniques have recently been published in the technical literature. The purpose of this paper is to summarize and organize the information on these current approaches, emphasizing the importanc	
Keywords : artificial intelligence, genetic algorithms, multicriteria optimization, multiobjective optimization, vector optimization	
 Mobile nelwork estimation Minkyong Kim, Brian Noble July 2001 Proceedings of the 7th annual international conference on Mobile computing and networking 	
Full text available: pdf(377.61 KB) Additional Information: full citation, abstract, references, citings, index terms	
Mobile systems must adapt their behavior to changing network conditions. To do this, they must accurately estimate available network capacity. Producing quality estimates is challenging because network observations are noisy, particularly in mobile, ad hoc networks. Current systems depend on simple, exponentially-weighted moving average (EWMA) filters. These filters are either able to detect true changes quickly or to mask observed noise and transients, but cannot do both. In this paper, we p	
Keywords: adaptive systems, filtering, mobile network estimation	
9 Facilitating active learning with inexpensive mobile robots Stephen Paul Linder, Brian Edward Nestrick, Symen Mulders, Catherine Leah Lavelle April 2001 The Journal of Computing in Small Colleges, Proceedings of the sixth annual CCSC northeastern conference on The journal of computing in small colleges, Volume 16 Issue 4 Full text available: pdf(234.52.K6) Additional Information: full citation, abstract, references, index terms	
Our educational system must nurture a student's ability to acquire knowledge. Research has proven that active learning, learning promoted by interacting with one's environment, as opposed to lectures, is most effective in developing a students ability to acquire knowledge. In the computer science domain, active learning can be facilitated by using mobile robots in a collaborative setting. We believe that a context-based, collaborative	

December 1991 ACM Computing Surveys (CSUR), Volume 23 Issue 4 Additional Information: full citation, references, citings, index terms, review Full text available: pdf(7.38 M6)

approach, combined with the excitement, motivation, and re \dots

M. R. Stytz, G. Frieder, O. Frieder

20 Three-dimensional medical imaging: algorithms and computer systems

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

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1 Fuzzy reasoning and the logics of uncertainty

B. R. Gaines

May 1976 Proceedings of the sixth international symposium on Multiple-valued logic

Full text available: pdf(914.85 KB) Additional Information: full citation, abstract, references, index terms

This paper is concerned with the foundations of fuzzy reasoning and its relationships with other logics of uncertainty. The definitions of fuzzy logics are first examined and the role of fuzzification discussed. It is shown that fuzzification of PC gives a known multivalued logic but with inappropriate semantics of implication and various alternative forms of implication are discussed. In the main section the discussion is broadened to other logics of uncertainty and it is argued that there ...

2 Teaching principles of fuzzy logic analysis using the BK-products model Bobby C. Granville

April 2003 The Journal of Computing in Small Colleges, Volume 18 Issue 4

Full text available: pdf(44,13 KB) Additional Information: full citation, abstract, references, index terms

The objective of the course is to give students experience using a generic front-end for relational knowledge based systems that explore the advantages of fuzzy "computing with words," a natural language protocol that provides users the freedom to permit their common use of vague measurement terms in analyzing vague and partial relational knowledge structures. This course applies fuzzy logic to filter, organize, and compare verbal relational requests (queries) that relate patient symptoms with d ...

A collaborative fuzzy expert system for the Web

Tod A. Sedbrook

June 1998 ACM SIGMIS Database, Volume 29 Issue 3

Full text available: pdf(1.54 M6) Additional Information: full citation, abstract, index terms

A convergence of Internet and fuzzy logic technologies provides an opportunity for experts and end users to collaborate in developing, refining, and testing knowledge-based systems. Internet technology removes geographical and time-based restraints, and fuzzy rule bases are easier to understand and maintain. This paper describes an architecture and a prototype for developing, delivering, and maintaining expert systems on the World Wide Web.The system's collaboration components allowed experts to ...

Keywords: Internet, collaboration, design, expert system, fuzzy logic

4	Information granulation for concept formation W. Pedrycz, A. V. Vasilakos, A. Gacek March 2000 Proceedings of the 2000 ACM symposium on Applied computing	
	Full text available: pdf(468.28 KB) Additional Information: full citation, references, index terms	
	Keywords : fuzzy sets, granular time series and granular models, measures of fuzziness, membership function elicitation, robust estimator	
5	User mobility profile prediction: an adaptive fuzzy inference approach Xuemin Shen, Jon W. Mark, Jun Ye November 2000 Wireless Networks, Volume 6 Issue 5	
	Full text available: pdf(213.04 KB) Additional Information: full citation, references, index terms	
6	Fuzzy set methods for qualitative and natural language oriented simulation Paul A. Fishwick December 1990 Proceedings of the 22nd conference on Winter simulation	
	Full text available: pdf(651.07 KB) Additional Information: full citation, references, citings, index terms	
7	What does fuzzy logic bring to AI? Didier Dubois, Henri Prade September 1995 ACM Computing Surveys (CSUR), Volume 27 Issue 3	
	Full text available: pdf(278.66 KB) Additional Information: full citation, references, index terms, review	
8	A wavelet-based neuro-fuzzy system for data mining small image sets Brendon J. Woodford, Da Deng, George L. Benwell January 2004 Proceedings of the second workshop on Australasian information security, Data Mining and Web Intelligence, and Software Internationalisation - Volume 32 Full text available: pdf(327.86 KB) Additional Information: full citation, abstract, references	
	Creating a robust image classification system depends on having enough data with which one can adequately train and validate the model. If there is not enough available data, this assumption may not hold and would result in a classifier that exhibits poor performance, thus lowering it's acceptability. This paper offers a solution to the problem of training and testing a neuro-fuzzy system for the purpose of image recognition when there are a limited number of images. Features of interest are seg	
	Keywords: multimedia data mining, pattern recognition, spatial data mining	
9	Integration of various emotion eliciting factors for life-like agents Kwangyong Lee October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 2)	
	Full text available: pdf(462.41 KB) Additional Information: full citation, references, index terms	

Keywords: emotion eliciting factors, emotion generation, lifelike agents

10 A new approach to knowledge acquisition by repertory grids	
Sanjiv K. Bhatia, Qi Yao	
December 1993 Proceedings of the second international conference on Information and	
knowledge management Full text available: pdf(329.13 KB) Additional Information: full citation, references, citings, index terms	
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11 Session 11C: decision making: Agent preference relations: strict, indifferent and	
<u>incomparable</u>	
Peyman Faratin, Bartel Van de Walle July 2002 Proceedings of the first international joint conference on Autonomous	
agents and multiagent systems: part 3	
Full text available: pdf(228.20 KB) Additional Information: full citation, abstract, references, oltings, index terms	
In traditional preference modeling approaches, agents can express preferences among a pair of alternatives in three distinct ways: either an agent has a strict preference of one alternative compared to the other, or is indifferent between both alternatives, or considers the two alternatives as incomparable. These three preference relations are disjunct, and take the crisp binary values of 0 and 1 only. We propose in this paper a fuzzy preference model to relax these dichotomous conditions: an ag	
Keywords: (Fuzzy) multi criteria decision making, incomparability, multi-agent systems	
12 Effectiveness of a neuro-fuzzy classifier in automated modeling of classification problem-solving knowledge: a quasi-experiment	8000
Narasimha Bolloju	
December 1997 Proceedings of the eighteenth international conference on Information	
systems Full text available: ∰ pdf(8.94 KB) Additional Information: full citation, references	
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13 Logical foundations for knowledge representation in intelligent systems	X X X X
B R Gaines December 1986 Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems	
Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, index terms	
We have entered an era of intelligent system development in which fifth and sixth generation computing systems are expected to emulate and enhance natural intelligence. However, human knowledge processes are not well-understood and it is tempting to base the technology of intelligent systems on formal reasoning rather than human psychology. In particular, the attempt to base knowledge processing in fifth generation computing systems on logic programming suggests that we should examine the r	
14 Emotion: Emotional advantage for adaptability and autonomy	
Eugénio Oliveira, Luís Sarmento	لتهم
July 2003 Proceedings of the second international joint conference on Autonomous	

agents and multiagent systems

Full text available: pdf(219.39 KB) Additional Information: full citation, abstract, references, index lerms

During the last two decades, researchers have collected a decisive amount of experimental evidence about the fundamental role of Emotion on cognitive processing. Emotional phenomena have been correlated with effective decision-making processes, memory, learning and other high-level cognitive capabilities and skills (e.g. risk assessment). In this paper we will describe an ongoing work that aims to design new Agent Architectures influenced by what has been learned in psychology and neurosciences ...

Keywords: adaptability, cognition, emotion, simulation

15	FQUERY for Access: towards human consistent querying user interface Slawomir Zadrozny, Janusz Kacprzyk February 1996 Proceedings of the 1996 ACM symposium on Applied Computing	
	Full text available: pdf(516.52 KB) Additional Information: full citation, references, index terms	
	Keywords : fuzzy DBMS, fuzzy linguistic quantifier, fuzzy logic, fuzzy querying, relational DBMS	
16	A hypothesis refinement method for summary discovery in databases Do Heon Lee, Myoung Ho Kim December 1993 Proceedings of the second international conference on Information and knowledge management Full text available: pdf(792.56 KB) Additional Information: full citation, references, index terms.	
17	Cluster characterization in information retrieval Sanjiv K. Bhatia, Jitender S. Deogun March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice Full text available: pdf(744.84 KB) Additional Information: full citation, references, index terms	
	Keywords : cluster characterization, document clustering, learning in information retrieval, text analysis	
18	Military applications: Commander behavior and course of action selection in JWARS Deborah Vakas, John Prince, H. Ric Blacksten, Chuck Burdick	·se <u>r</u> es

The Joint Warfare System (JWARS) is being equipped with a Commander Model (CM) to perform situation assessment and Course of Action (COA) selection, and a Commander Behavior Model (CBM) to bias decisions with a commander's leadership style. The CM is a hybrid artificial intelligence system that models doctrine through the use of fuzzy rule sets, together with a tree-based lookahead algorithm for the strategy. The CBM employs behavior-based fuzzy rule sets to augment the CM in assessing the situa ...

Full text available: pdf(209.93 KB) Additional Information: full citation, abstract, references, index terms

December 2001 Proceedings of the 33nd conference on Winter simulation

User modeling I: Designing example-critiquing interaction

Boi Faltings, Pearl Pu, Marc Torrens, Paolo Viappiani

January 2004 Proceedings of the 9th international conference on Intelligent user interface

Full text available: pdf(412.31 KB) Additional Information: full citation, abstract, references, index terms

In many practical scenarios, users are faced with the problem of choosing the most preferred outcome from a large set of possibilities. As people are unable to sift through them manually, decisions support systems are often used to automatically find the optimal solution. A crucial requirement for such a system is to have an accurate model of the user's preferences. Studies have shown that people are usually unable to accurately state their preferences up front, but are greatly helped by seeing e ...

Keywords: decision support tools, example critiquing

20 Cumulating and sharing end users knowledge to improve video indexing in a video digital library

Marc Nanard, Jocelyne Nanard

January 2001 Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(250.01 KB) terms

In this paper, we focus on a user driven approach to improve video ind exing. It consists in cumulating the large amount of small, individual efforts done by the users who access information, and to provide a community management mechanism to let users share the elicited knowledge. This technique is currently being developed in the "OPALES" environment and tuned up at the "Institut National de l'Audiovisuel&r dquo; (INA), a National Video Library in Paris, to increase the v ...

Keywords: knowledge sharing, private workspaces, users communities, video annotation, video indexina

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Eliciting software process models with the E3 language

Maria Letizia Jaccheri, Gian Pietro Picco, Patricia Lago

October 1998 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 7 Issue 4

Full text available: pdf(1.48 MB)

Additional Information: foll citation, abstract, references, citings, index

Software processes are complex entities that demand careful understand ing and improvement as they determine the quality of the resulting product. A necessary step toward the improvement of an organization's process is a clear description of the entities involved and of their mutual relationships. Process model elicitation aims at constructing this description under the shape of a software process model. The model is constructed by gathering, from several sources, process ...

Keywords: associations, process model elicitation, software process modeling

Elicitations during information retrieval: implications for IR system design Amanda Spink, Abby Goodrum, David Robins, Mei Mei Wu August 1996 Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(789.17 KB) Additional Information: full citation, references, citings, index terms

Eliciting formal models of software engineering processes Dirk Höltje, Nazim H. Madhavji, Tilmann Bruckhaus, WonKook Hong October 1994 Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research

Full text available: ndf(263.10 KB) Additional Information: full citation, abstract, references, index terms

One of the first steps in improving a process is to understand the process, for example, by building descriptive models of the process. This paper addresses the elicitation of formal process models from real-world projects, using the Elicit method and tool, developed at McGill, and Statemate. In addition, the paper illustrates how formal models can make processes visible and how they can uncover inconsistencies and incompleteness in the understanding and the documentation. The described method a ...

On polynomial-time preference elicitation with value queries

Full text available: pdf(230.26 KB)

Martin A. Zinkevich, Avrim Blum, Tuomas Sandholm June 2003 Proceedings of the 4th ACM conference on Electronic commerce

Additional Information: full citation, abstract, references, citings, index terms

Preference elicitation --- the process of asking queries to determine parties' preferences --is a key part of many problems in electronic commerce. For example, a shopping agent needs to know a user's preferences in order to correctly act on her behalf, and preference elicitation can help an auctioneer in a combinatorial auction determine how to best allocate a given set of items to a given set of bidders. Unfortunately, in the worst case, preference elicitation can require an exponential numb ...

Keywords: combinatorial auctions, learning, preference elicitation

5 Bootstrapping morphological analyzers by combining human elicitation and machine learning

Kemal Oflazer, Sergei Nirenburg, Marjorie McShane March 2001 Computational Linguistics, Volume 27 Issue 1



Full text available: pdf(1.76 MB) Additional Information: full citation, abstract, references

This paper presents a semiautomatic technique for developing broad-coverage finite-state mor-phological analyzers for use in natural language processing applications. It consists of three components---elicitation of linguistic information from humans, a machine learning bootstrapping scheme, and a testing environment. The three components are applied iteratively until a threshold of output quality is attained. The initial application of this technique is for the morphology of low-density languag ...

Special issue on the fusion of domain knowledge with data for decision support: Preference elicitation via theory refinement

Peter Haddawy, Vu Ha, Angelo Restificar, Benjamin Geisler, John Miyamoto December 2003 The Journal of Machine Learning Research, Volume 4

Full text available: pdf(150.88 KB) Additional Information: full citation, abstract, citings

We present an approach to elicitation of user preference models in which assumptions can be used to guide but not constrain the elicitation process. We demonstrate that when domain knowledge is available, even in the form of weak and somewhat inaccurate assumptions, significantly less data is required to build an accurate model of user preferences than when no domain knowledge is provided. This approach is based on the KBANN (Knowledge-Based Artificial Neural Network) algorithm pioneered by Shav ...

Posters: Generalizing preference elicitation in combinatorial auctions Benoît Hudson, Tuomas Sandholm

July 2003 Proceedings of the second international joint conference on Autonomous agents and multiagent systems

Additional Information: full citation, abstract, references, index terms Full text available: pdf(79.85 KB)

Combinatorial auctions where agents can bid on bundles of items are desirable because they allow the agents to express complementarity and substitutability between the items. However, expressing one's preferences can require bidding on all bundles. Selective incremental preference elicitation by the auctioneer was recently proposed to address this problem but the idea was not experimentally validated. This paper evaluates several approaches and finds that in many cases, automated elicitation is ...

Keywords: combinatorial auctions, electronic auctions, preference elicitation

8	U-TEL: a tool for eliciting user task models from domain experts R. Chung-Man Tam, David Maulsby, Angel R. Puerta January 1997 Proceedings of the 3rd international conference on Intelligent user interfaces Full text available: pdf(566.29 KB) Additional Information: fdfi citation, references, citings, index terms Keywords: knowledge elicitation, model-based user interface design, task models, user-centered design	
9	The group elicitation method for participatory design and usability testing Guy A. Boy March 1997 interactions, Volume 4 Issue 2 Full text available: pdf(449.67 KB) Additional Information: full citation, references, citings, index terms, review	
10	The elicitation of system knowledge by picture probes P. Barnard, M. Wilson, A. MacLean April 1986 ACM SIGCHI Bulletin, Proceedings of the SIGCHI conference on Human factors in computing systems, Volume 17 Issue 4 Full text available: pdf(811.54 KB) Additional Information: full citation, abstract, references, index terms A technique is described in which a user's knowledge of a software package is elicited by means of a series of photographs depicting the system in a variety of states. The resultant verbal protocols were codified and scored in relation to the way in which the system actually worked. In the illustrative study described, the probes were administered twice after 5 and 10 hrs of system experience with an office product (VisiOn*). The number of true claims elicited increased with experience but	
11	Methodological Support for Requirements Elicitation and Formal Specification Maritta Heisel, Jeanine Souquieres April 1998 Proceedings of the 9th International Workshop on Software Specification and Design Full text available: Publisher Site We propose a method for the elicitation and the expression of requirements. The requirements can then be transformed in a systematic way into a formal specification that is a suitable basis for design and implementation of a software system. The approach which distinguishes between requirements and specifications gives methodological support for requirements elicitation and specification development. It does not introduce a new language but builds on known techniques. Keywords: Requirements elicitation, formal specification, method.	
12	Overcoming communication obstacles in user-analyst interaction for functional requirements elicitation S. Valenti, M. Panti, A. Cucchiarelli January 1998 ACM SIGSOFT Software Engineering Notes, Volume 23 Issue 1	

Full text available: pdf(724.86 KB) Additional Information: full citation, abstract, index terms The importance of requirement engineering in the software development process has been widely recognised by the scientific community. One of the major error sources that arise in this phase is represented by ineffectual communication between users and analysts. Valusek and Fryback in [32] identify three classes of communication obstacles to a successful elicitation of requirements. Purpose of this paper is to discuss these obstacles and to identify the structure of a CASE tool that may allow to o ... 13 Poster paper sessions: Preference elicitation in proxied multiattribute auctions Aditya V. Sunderam, David C. Parkes June 2003 Proceedings of the 4th ACM conference on Electronic commerce Additional Information: full citation, abstract, references, citings, index Full text available: pdf(104.75 KB) terms We consider the problem of minimizing preference elicitation in efficient multiattribute auctions, that support dynamic negotiation over non-price based attributes such as quality, time-of-delivery, and processor speed. We introduce asynchronous price-based multiattribute auctions, with proxy bidding agents that sit between the auctioneer and the participants. Empirical results demonstrate the preference elicitation savings that are provided with minimal price spaces, asynchronous updates, and p ... 14 Establishing a foundation for collaborative scenario elicitation Ann M. Hickey, Douglas L. Dean, Jay F. Nunamaker September 1999 ACM SIGMIS Database, Volume 30 Issue 3-4 Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, index terms Eliciting and integrating requirements from large groups of diverse users remains a major challenge for the software engineering community. Scenarios are becoming recognized as valuable means of identifying actions taken by users when executing a business process and interacting with an information system, and therefore have great potential for addressing requirements elicitation problems. A review of the scenario literature indicates that, although there is widespread agreement on the usefulnes ... Keywords: IS development methods and tools, group support systems, information requirements determination, participative design, scenarios

15 Integration of various emotion eliciting factors for life-like agents Kwangyong Lee October 1999 Proceedings of the seventh ACM international conference on Multimedia (Part 2) Full text available: pdf(462.41 KB) Additional Information: full citation, references, index terms Keywords: emotion eliciting factors, emotion generation, lifelike agents 16 Tutorials: Non-functional requirements: from elicitation to modelling languages Luiz Marcio Cysneiros, Julio Cesar Sampaio do Prado Leite May 2002 Proceedings of the 24th international conference on Software engineering

Full text available: pdf(223.67 KB) Additional Information: full citation, abstract, references, index terms Although Non-Functional Requirements (NFRs) have been present in many software development methods, they have been presented as a second or even third class type of

requirement, frequently hidden inside notes and therefore, frequently neglected or

ground

most expensive and difficult to deal with there are still few works that focus on NFRs as first class requirements. Although these works have brought a contributio ... 17 Session 7: requirements analysis: Negative scenarios for implied scenario elicitation Sebastian Uchitel, Jeff Kramer, Jeff Magee November 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 6 Full text available: pdf(1.16 MB) Additional Information: full citation, abstract, references, index terms Scenario-based specifications such as Message Sequence Charts (MSCs) are popular for requirement elicitation and specification. MSCs describe two distinct aspects of a system: on the one hand they provide examples of intended system behaviour and on the other they outline the system architecture. A mismatch between architecture and behaviour may give rise to implied scenarios. Implied scenarios occur because a component's local view of the system state is insufficient to enforce specified system ... Keywords: MSC, implied scenarios, negative scenarios 18 Requirements analysis: Negative scenarios for implied scenario elicitation Sebastian Uchitel, Jeff Kramer, Jeff Magee November 2002 Proceedings of the tenth ACM SIGSOFT symposium on Foundations of software engineering Full text available: pdf(360.91 KB) Additional Information: full citation, abstract, references, index terms Scenario-based specifications such as Message Sequence Charts (MSCs) are popular for requirement elicitation and specification. MSCs describe two distinct aspects of a system: on the one hand they provide examples of intended system behaviour and on the other they outline the system architecture. A mismatch between architecture and behaviour may give rise to implied scenarios. Implied scenarios occur because a component's local view of the system state is insufficient to enforce specified system ... Keywords: MSC, implied scenarios, negative scenarios 19 Making connections: using classroom assessment to elicit students' prior knowledge and construction of concepts Sarah Schwarm, Tammy VanDeGrift June 2003 ACM SIGCSE Bulletin, Proceedings of the 8th annual conference on Innovation and technology in computer science education, Volume 35 Issue 3 Full text available: pdf(334.85 KB) Additional Information: full citation, abstract, references, index terms Students bring prior knowledge and experiences to the classroom. According to the constructivist learning theory, students incorporate new knowledge into their existing knowledge frameworks. We used Classroom Assessment Techniques in an information technology course to elicit the construction of knowledge process. We found that CATs and instructor feedback can help shape and reveal this construction process. For example, responses to CATs revealed students' understandings of variables, digital r ... Keywords: classroom assessment, constructivism 20 The group elicitation method for participatory design and usability testing Guy A. Boy April 1996 Conference companion on Human factors in computing systems: common

forgotten. Surprisingly, despite the fact that non-functional requirements are among the

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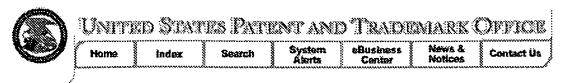
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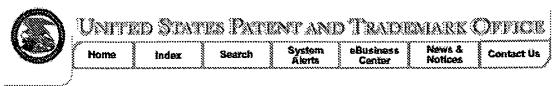


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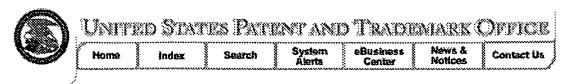
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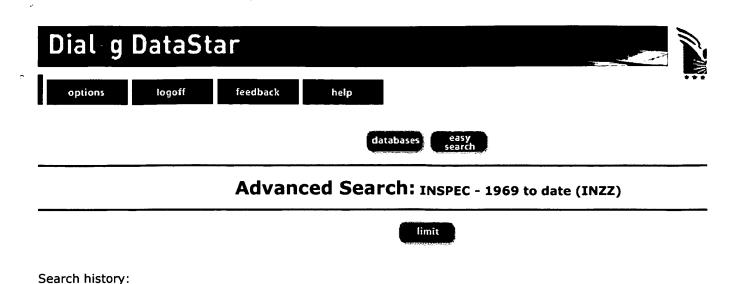
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